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PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL INFORMATION

ASM ANALYSIS

ALEKSEYEVKA AIRFIELD, USSR

Declass Review by NIMA/DOD

[Redacted]

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CIA/PIR67114

[Redacted]

DATE NOVEMBER 1965

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PAGES 13

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Approved For Release 2003/05/05 : CIA-RDP78T05161A000800010035-3

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ASM ANALYSIS
ALEKSEYEVKA AIRFIELD, USSR

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ASM ANALYSIS
ALEKSEYEVKA AIRFIELD, USSR

[redacted] covers Alekseyevka Airfield, USSR (49 14N-140 11E) with cloud free, excellent quality photography (Figure 1). The airfield is imaged on two frames; however, stereo is very poor to impossible because the airfield image is greatly distorted and smeared at the edge of one of the frames.

Analysis of the aerodynamic vehicles observed in the ASM (Air-to-Surface Missile) facilities on [redacted] and reported to be 10 probable KITCHEN and 3 probable KIPPER (cite NPIC 5663) reveals that the vehicles observed in the ASM Support Facility (Figure 2) are 3 probable KENNEL, 9 probable KENNEL with their wings folded and 2 possible ASM. One probable KENNEL with its wings folded and 4 possible ASM are observed in the ASM Storage Area (Figure 3).

Three methods of analysis, in addition to visual interpretation of the images, were used to help substantiate the identification of the ASM. The methods are mensural analysis for dimensions of the vehicles, isodensity traces (the detection of changes in density of images on the photography not visible to the eye) to try to detect the vehicle outlines and especially the wing planforms, and the comparison of shadows and images with the use of a model of the KENNEL painted a color similar to the color of the image on the photograph and photographed on a similar background using a light source with the same angle and azimuth as the sun and a camera angle the same as the look angle on the photograph.

The obtainable dimensions of the probable KENNEL observed in the ASM Support Area (Figure 2) are as follows:

- A. [redacted]
- B. [redacted] nose to the intersection of the leading edge of the wing and the fuselage [redacted] tail to the intersection of the trailing edge of the wing and the fuselage 10'.
- C. Length 30', wingspan 10', fuselage diameter [redacted] nose to the intersection of the wing leading edge and the fuselage [redacted] tail to the intersection of the wing trailing edge and the fuselage 10'.

D. [redacted]

E. [redacted]

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[redacted] nose to the intersection of the wing leading edge and the fuselage [redacted] tail to the intersection of the wing trailing edge and the fuselage [redacted] horizontal stabilizer span [redacted] wing leading edge sweepback angle approximately [redacted]

L. [redacted] nose to the intersection of wing leading edge and fuselage [redacted] tail to the intersection of wing trailing edge and the fuselage [redacted] wing leading edge sweepback angle approximately [redacted]

The results of the isodensity traces were not conclusive; however, they do help support the contention that there are no delta winged ASM in the support area. The traces also revealed the presence of the two possible ASM in the ASM Support Facility. These two are located in the shadow area between the NE end of the ASM maintenance/assembly building and the probable KENNEL with folded wings (annotation I, Figure 2).

The comparison of the KENNEL model image and shadow with the images and shadows of the ASM in the ASM Support Facility (Figures 5, 6 & 7) provide some of the best supporting evidence that the ASM are probably KENNEL. Many similarities between the KENNEL models and the ASM's observed on Mission [redacted] can be seen. Note the similar appearance of the left wing of ASM annotation C (Figure 5) and that of the model (Figure 6) including the shadow line on the fuselage at the wing root. Especially note the similarity of the vehicles and their shadows between the model (Figure 8) and ASM annotation F (Figure 7). Figures 9 and 10 show a good comparison of the probable KENNEL with wings unfolded and the KENNEL model. Note how little shadow is cast by the wings when they are not folded up.

Three areas generally NE of Alekseyevka Airfield are either associated or probably associated with the ASM support of the airfield. A description of the facilities is as follows:

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A. The ASM Support Facility (Figure 2) is located .9 nm NE of the RP (reference point) and comprises an area secured by 3 guard shacks, 6 guard towers and 4 fences containing one administration building, one drive-thru ASM maintenance/assembly building, 2 earth covered drive-thru ASM storage buildings, one 2 bay drive-thru ASM checkout building and 3 small miscellaneous support buildings. A total of 12 probable KENNEL Air-to-Surface Missiles (9 with their wings folded) 2 possible ASM and 7 probable shipping crates are observed within the secured area. A final checkout building is located SW of the secured area and a probable ASM checkout area is under construction south of the secured area. Construction activity at the probable ASM checkout area was first observed in [REDACTED] when a loop road was constructed. Construction of a second loop road and three probable checkout facilities was first observed on [REDACTED]

B. The ASM Storage Area (Figure 3) is located 2.1 nm NE of the RP and comprises an area secured by 5 guard towers, 2 guard shacks and 4 fences containing 8 earth covered drive-thru ASM storage buildings, one drive-thru ASM maintenance/assembly building, one unidentified building, one unidentified bunker, one unidentified facility and 3 miscellaneous support buildings. [REDACTED]

[REDACTED] One probable KENNEL with wings folded, 4 possible ASM and 83 probable shipping crates are observed in the storage area. A single fenced area attached to the west side of the main secured area contains a double bay drive-thru checkout building and 4 miscellaneous support buildings.

C. A probable ASM Warhead Assembly Facility (Figure 4) is located 1.5 nm NNE of the RP and comprises an area secured by 5 guard towers, 2 guard shacks and 4 fences containing 2 earth covered drive-thru probable warhead storage buildings, one explosive storage building completely surrounded by a revetment [REDACTED] and one small support building. Seventeen cargo trucks are observed in the secured area. At the south edge of the main secured area, between the outer security fence and the second fence is located a walled possible warhead assembly area containing 2 small buildings. Immediately south of the walled area are at least 27 possible ASM warhead crates. Also within the fenced area are an administration building and 3 small support buildings.

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The total of 90 probable shipping crates observed in the ASM Support Facility and the ASM Storage Area range in size from [] The 27 small possible ASM warhead crates measure approximately []

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X1 Aircraft observed on [] include 59 BADGER of which there are 18 probable "C" models, 40 probable "A/B" models and one model undetermined. Other aircraft observed are one BEAGLE, one FAGOT, 2 CAT/CUB, 2 CAB, 2 COLT and one CREEK.

All measurements have been made by the NPIC Technical Intelligence Division, with the exception of the wing sweepback angle on the probable KENNEL ASM and the dimensions of the crates in the probable ASM Warhead Assembly Facility. These measurements were made by the CIA/IAD project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data. The NPIC/TID measurements are considered to be accurate within plus or minus 5 feet or plus or minus 5 percent, whichever is greater.

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ALEKSEYEVKA AIRFIELD

U S S R

49 - 14N 140 - 11E

PROBABLE ASM WARHEAD ASSEMBLY FACILITY

ASM STORAGE AREA

ASM SUPPORT FACILITY

RP ⊕

FIGURE 1

5 X ENLARGEMENT

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SCALE - 1 : 22,200

APPROXIMATE

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25X1

25X1

ASM SUPPORT FACILITY

FINAL CHECK-OUT BUILDING

ASM CHECKOUT BUILDING

A B C

ASM STORAGE BUILDINGS

CRATES

PROBABLE KENNEL

L K J

ASM MAINTENANCE / ASSEMBLY BUILDING

PROBABLE KENNEL (WINGS FOLDED)

ADMINISTRATION BUILDING

POSSIBLE ASM

PROBABLE KENNEL (WINGS FOLDED)

PROBABLE ASM CHECKOUT AREA UNDER CONSTRUCTION

25X1

100X enlargement

FIGURE 2

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25X1

SCALE - 1:1000
APPROXIMATE

TOP SECRET

25X1

25X1

25X1

ASM STORAGE AREA

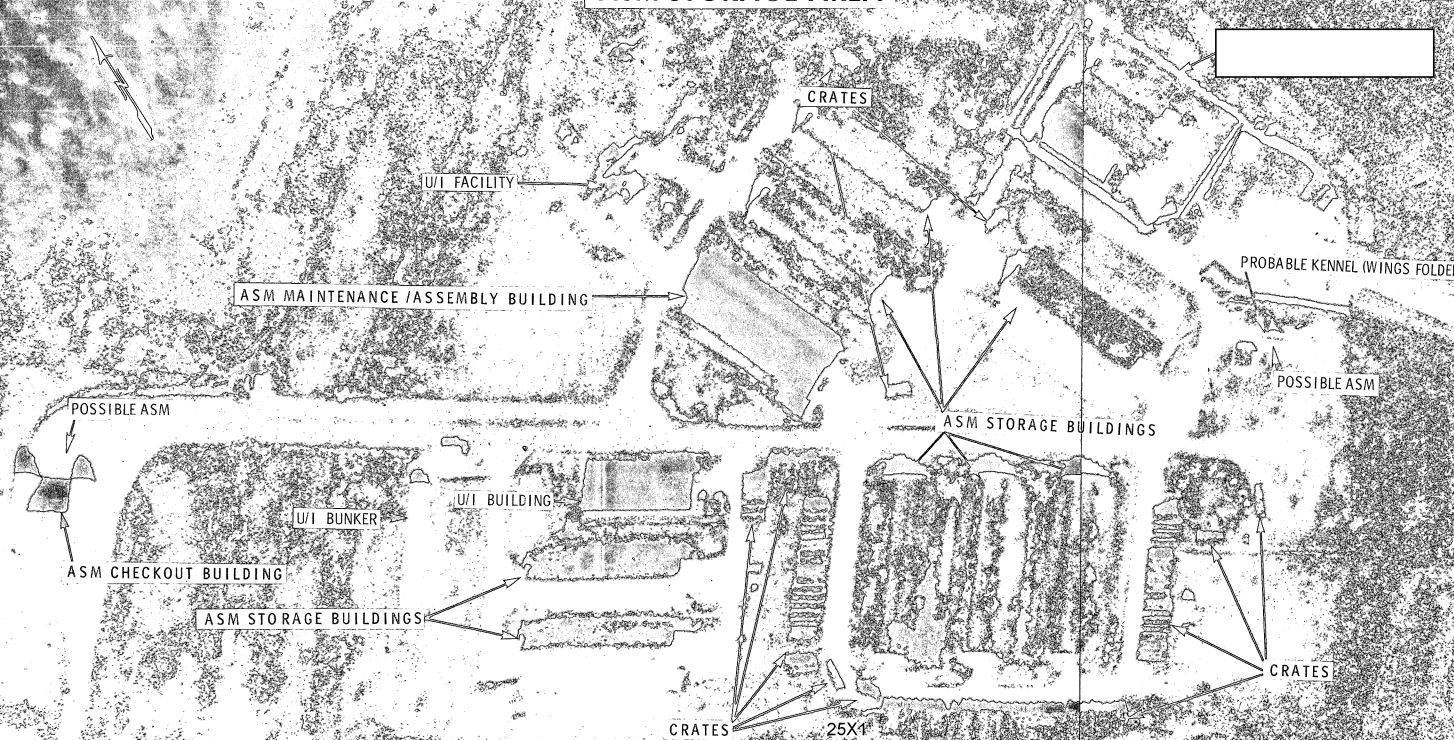


FIGURE 3

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25X1

25X1

PROBABLE ASM WARHEAD ASSEMBLY FACILITY

POSSIBLE WARHEAD ASSEMBLY AREA

POSSIBLE ASM WARHEAD CRATES

CARGO TRUCKS

PROBABLE WARHEAD STORAGE BUILDINGS

EXPLOSIVE STORAGE

25X1

100 X ENLARGEMENT

FIGURE 4

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25X1

SCALE - 1:1000
APPROXIMATE

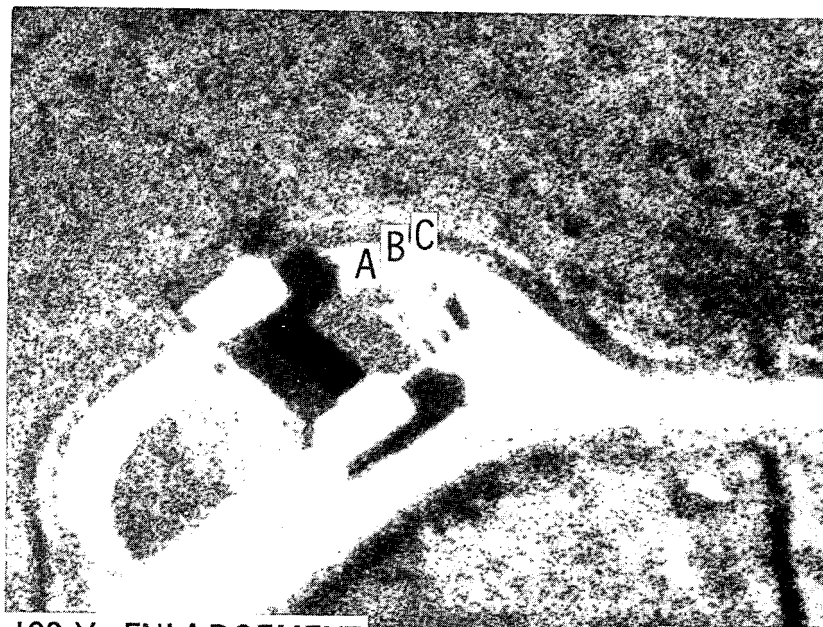
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100 X ENLARGEMENT

FIGURE 5

PROBABLE KENNEL (WINGS FOLDED)

25X



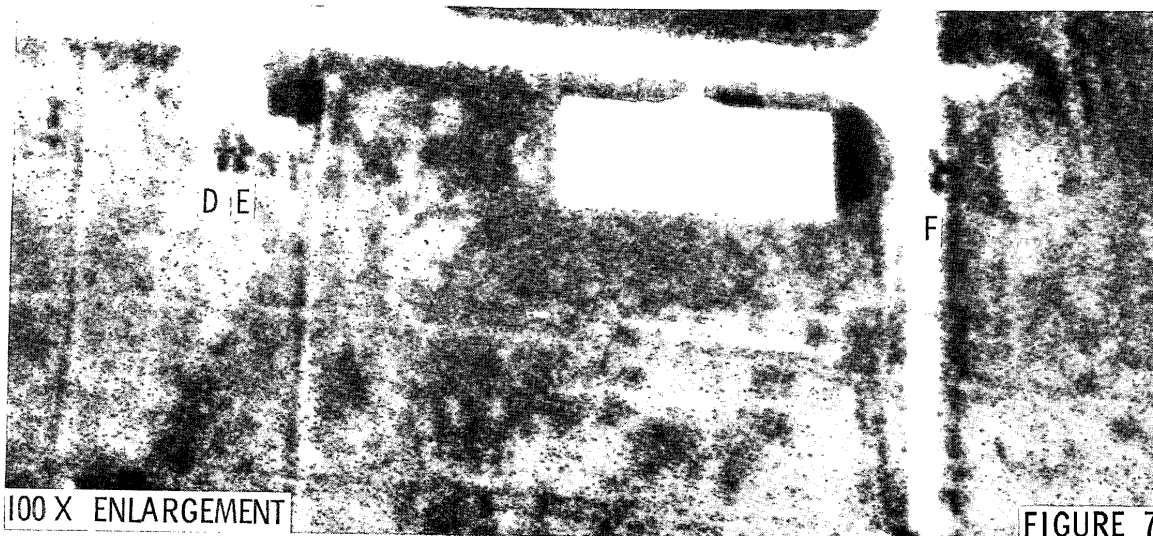
FIGURE 6

KENNEL MODEL (WINGS FOLDED)

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100 X ENLARGEMENT

PROBABLE KENNEL (WINGS FOLDED)

FIGURE 7

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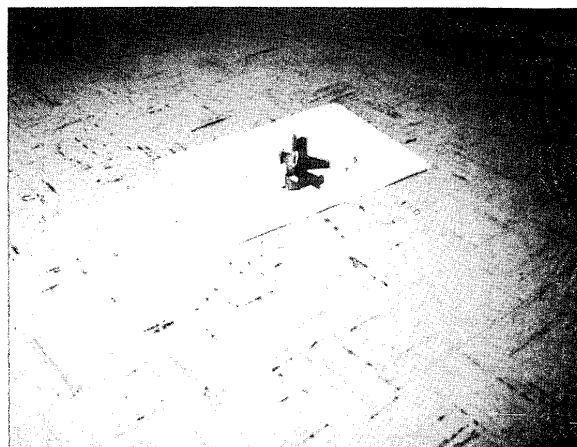


FIGURE 8

KENNEL MODEL
(WINGS FOLDED)

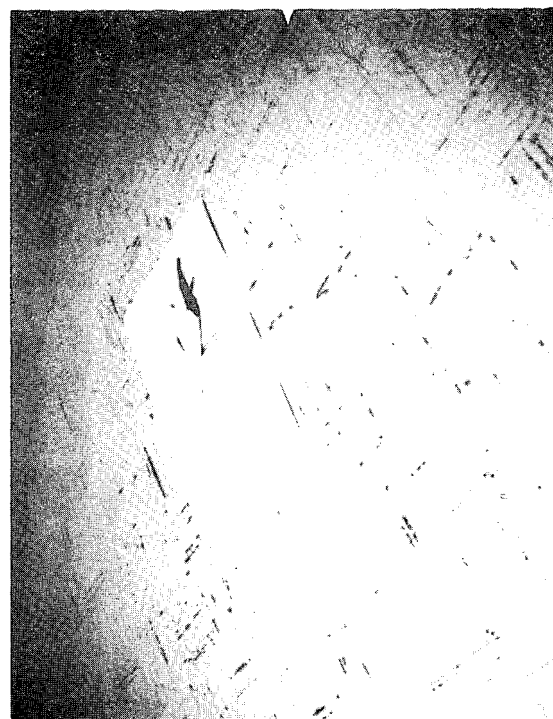
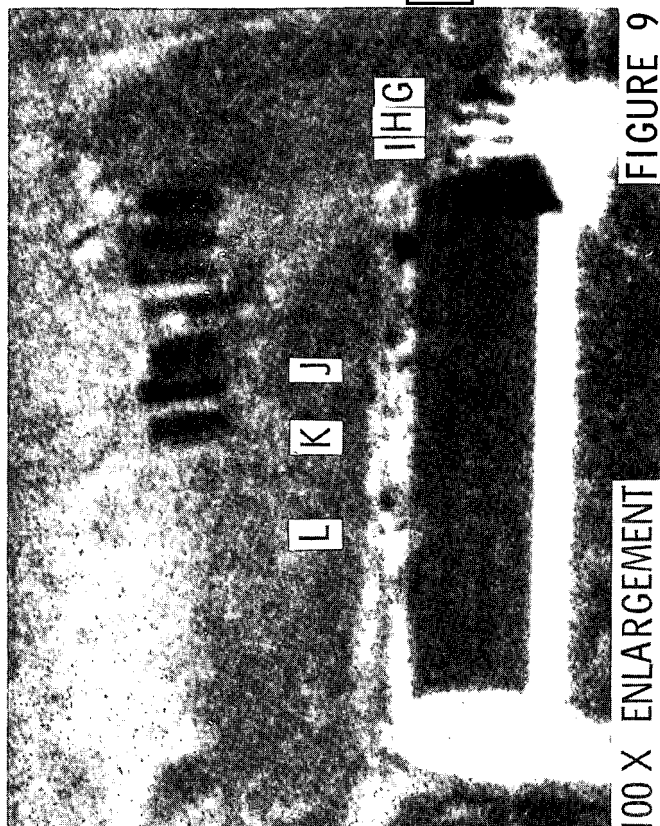
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PROBABLE KENNEL
(WINGS UNFOLDED & FOLDED)



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REFERENCES

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REQUIREMENT

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